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(54) DETECTOR FOR MILLIMETER WAVE

(57)Abstract:

PURPOSE: To obtain an inexpensive detector of a millimeter wave whose manufacture is easy with excellent mass-productivity with respect to the structure of the detector for a millimeter wave including an antenna for a millimeter wave band.

CONSTITUTION: A ground conductor film 2 and a dielectric film 3 are laminated on a 1st silicon-made semiconductor board 1, a plane antenna 4 and a feeding microstrip line 7 are formed on the dielectric film 3, and a 2nd gallium arsenide semiconductor board 5 on which a detection circuit is formed is mounted by a Phillips chip mount. Thus, an inexpensive silicon material is used for a part with a large area and expensive gallium arsenide is used for only an active element of a millimeter wave band to realize the detector inexpensively while keeping the high manufacture precision being a requirement for a millimeter wave band.



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